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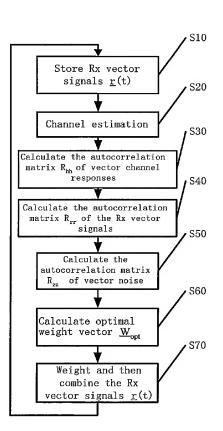
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(54) Title: METHODS AN APPARATUS OF MULTIPLE ANTENNA RECEIVER



(57) Abstract: A communication method performed by a mobile terminal with multiple antenna elements, comprising steps of: receiving the corresponding Rx vector signals from multiple antenna elements; calculating the suitable weight vector corresponding to the Rx vector signal of each antenna element according to the corresponding Rx vector signals; and obtaining an output signal with maximum SNR by weighting and then combining said Rx vector signals with said corresponding suitable weight vector respectively. With this method, a desirable system performance can be maintained, and the complexity of generating weight vector can be reduced effectively as well.

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